


1. Electron source

Terui, Yoshinori / Nonogaki, Ryoza (Denki Kagaku Kogyo Kabushiki Kaisha),
UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Apr 2006
 patno: US20060076866


Applicants

...measuring total **emission** current [0043] 16: Emitted **electron** beam (BEST MODE...invention is an **electron** source (BaO/W...consisting of BaAl₂O₄, **BaAl₁₂O₁₉**, Ba₃Sc₄O₉, BaSc₂O₄...oxides. [0046] The **electron** source of the...temperature of a ZrO/W **Schottky electron** source...invention, the total **emission** current is small...

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[similar results](#)


2. Nitride semiconductor device comprising bonded substrate and fabrication method of the same
Nagahama, Shinichi / Sano, Masahiko / Yanamoto, Tomoya / Sakamoto, Keiji / Yamamoto, Masashi / Morita, Daisuke (Nichia Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, May 2008
 patno: US7378334

A substrate 1 for growing nitride semiconductor has a first and second face and has a thermal expansion coefficient that is larger than that of the nitride semiconductor. At least n-type nitride semiconductor layers 3 to 5, an active layer 6 and p-type ...

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[similar results](#)


3. Apparatus for asymmetric dual-screen digital radiography
Yorkston, John / Yip, Kwok-Leung / Wojcik, Timothy J. (Eastman Kodak Company), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Jan 2008
 patno: US20080011960

...CaWO₄:Tb, BaFBr:Eu, BaFCl:Eu, BaSO₄:Eu, BaSrSO₄, BaPbSO₄, **BaAl₁₂O₁₉**:Mn, BaMgAl₁₀O₁₇:Eu, Zn₂SiO₄:Mn, (Zn,Cd)S:Ag, LaOBr, LaOBr...thin film transistor array structures include (a) n-i-p, (b) **Schottky** barrier, and (c) metal-insulator-semiconductor (MIS). Although...

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[similar results](#)


4. Nitride semiconductor device comprising bonded substrate and fabrication method of the same
Nagahama, Shinichi / Sano, Masahiko / Yanamoto, Tomoya / Sakamoto, Keiji / Yamamoto, Masashi / Morita, Daisuke (Nichia Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Sep 2006
 patno: US7105857

A substrate 1 for growing nitride semiconductor has a first and second face and has a thermal expansion coefficient that is larger than that of the nitride semiconductor. At least n-type nitride semiconductor layers 3 to 5, an active layer 6 and p-type ...

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5. Nitride semiconductor device comprising bonded substrate and fabrication method of the same
Nagahama, Shinichi / Sano, Masahiko / Yanamoto, Tomoya / Sakamoto, Keiji / Yamamoto, Masashi / Morita, Daisuke (Nichia Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Jun 2006
 patno: US20060128118

A substrate 1 for growing nitride semiconductor has a first and second face and has a thermal expansion coefficient that is larger than that of the nitride semiconductor. At least n-type nitride semiconductor layers 3 to 5, an active layer 6 and p-type ...

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6. Nitride semiconductor device comprising bonded substrate and fabrication method of the same
Nagahama, Shinichi / Sano, Masahiko / Yanamoto, Tomoya / Sakamoto, Keiji / Yamamoto, Masashi / Morita, Daisuke (Nichia Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Apr 2004
 patno: US20040072383

A substrate 1 for growing nitride semiconductor has a first and second face and has a thermal expansion coefficient that is larger than that of the nitride semiconductor. At least n-type nitride semiconductor layers 3 to 5, an active layer 6 and p-type ...

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1. Electron source

Applicants

Terui, Yoshinori / Nonogaki, Ryoza (Denki Kagaku Kogyo Kabushiki Kaisha), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Apr 2006
patno:US20060076866

...OF SYMBOLS [0028] 1: Needle [0029] 2: Supply source...present invention is an **electron source** (BaO/W emitter...formed on a **needle of tungsten or molybdenum single crystal** having <100> orientation...consisting of BaAl2O4, BaAl12O19, Ba3Sc4O9, BaSc2O4, BaTiO3...as known as an **oxide cathode**, an oxide containing...temperature. Therefore, a **cathode** having barium oxide as...voltage is applied to the **cathode** by heating in vacuum...

Full text available at patent office. For more in-depth searching go to  [similar results](#)

2. Investigation of Reactions between Barium Compounds and Tungsten in a Simulated Reservoir Hollow Cathode Environment

Schoenbeck, Laura, Mar 2005

...Barium Compounds and **Tungsten** 13 Solid-State Reaction...Analysis 47 Scanning Electron Microscopy 47 v CHAPTER...the Pellets in the **Molybdenum** Capsules 72 Formation...84 Surface Area of **Tungsten** in the Capsules 86...Evaporation of Barium from **Cathodes** Impregnated with Barium...**cathode** that produces **electrons** to ionize the xenon...critical component of the **cathode** is the barium 1 source...reducing agent, typically **tungsten**, to form free barium...
[http://hdl.handle.net/1853/6855]

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3. Investigation of Reactions between Barium Compounds and Tungsten in a Simulated Reservoir Hollow Cathode Environment

Schoenbeck, Laura, Mar 2005

...between Barium Compounds and **Tungsten** 13 Solid-State Reaction Kinetics...Evaporation Rates from Dispenser **Cathodes** 25 CHAPTER 3 EXPERIMENTAL...Semi-Quantitative Analysis 47 Scanning Electron Microscopy 47 v CHAPTER 4...Between the Pellets in the **Molybdenum** Capsules 72 Formation of...Capsules 86 2000 Hour Test **Cathode** 88 Predicted **Cathode** Life Based on Previously...

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4. Investigation of reactions between barium compounds and tungsten in a simulated reservoir hollow cathode environment

Schoenbeck, Laura, Jan 2005

...between Barium Compounds and **Tungsten** 13 Solid-State Reaction Kinetics...Evaporation Rates from Dispenser **Cathodes** 25 CHAPTER 3 EXPERIMENTAL...Semi-Quantitative Analysis 47 Scanning Electron Microscopy 47 v CHAPTER 4...Between the Pellets in the **Molybdenum** Capsules 72 Formation of...Capsules 86 2000 Hour Test **Cathode** 88 Predicted **Cathode** Life Based on Previously...


Full text thesis available via NDLT (OCLC)

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5. Fixed-pixel display device and cold cathode field electron emission display device

Ikeda, Hiroyuki (Sony Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Jul 2008
patno:US7405711

...hole 14. [0164] By the plural **electron**-emitting regions 15 arranged...Each light-emitting region (a **single pixel** or a **single subpixel**...connected to the respective **cathode** electrodes 11 to actuate the **cathode** electrodes 11. [0167] Each...subtraction circuit 52. A **cathode** electrode control circuit...

Full text available at patent office. For more in-depth searching go to  [similar results](#)

6. Fixed-pixel display apparatus and cold cathode field electron emission display apparatus


Ikeda, Hiroyuki, UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Nov 2006
patno:US20060262046

...hole 14. [0163] By the plural **electron**-emitting regions 15 arranged...Each light-emitting region (a **single pixel** or a **single subpixel**...connected to the respective **cathode** electrodes 11 to actuate the **cathode** electrodes 11. [0166] Each...subtraction circuit 52. A **cathode** electrode control

Circuit...

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7. Electroluminescent material and electroluminescent element
EUROPEAN PATENT APPLICATION, Mar 2007
patno:EP1764401
...color conversion filter). Electronic display device include a...light-emission type include a CRT (cathode ray tube), a PDP (plasma...325 discloses one using a single crystal of anthracene as the light-emission...injection layer and an organic electron injection layer, and Jpn...transportation layer and an electron transportation layer. The...

Full text available at patent office. For more in-depth searching go to  LexisNexis®
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8. Electroluminescent material, electroluminescent element and color conversion filter
Kita, Hiroshi / Suzuri, Yoshiyuki / Yamada, Taketoshi / Nakamura, Kazuaki / Ueda, Noriko / Okubo, Yasushi (Konica Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Jan 2008
patno:US7316851
...injected from a anode and an electron injected from a cathode are recombined, and is different...as long as the number of n-electron thereof is $4n+2$ in which n...natural number, and it may be a single ring or condensed ring. The...compound having a number of n-electron of $4n+2$ in which n is a natural...

Full text available at patent office. For more in-depth searching go to  LexisNexis®
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9. Electroluminescent material, electroluminescent element and color conversion filter
Kita, Hiroshi / Suzuri, Yoshiyuki / Yamada, Taketoshi / Nakamura, Kazuaki / Ueda, Noriko / Okubo, Yasushi (KONICA CORPORATION), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Jan 2007
patno:US20070020485
...injected from a anode and an electron injected from a cathode are recombined, and is different...as long as the number of n-electron thereof is $4n+2$ in which n...natural number, and it may be a single ring or condensed ring. The...compound having a number of n-electron of $4n+2$ in which n is a natural...






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10. Electroluminescent material, electroluminescent element and color conversion filter
Kita, Hiroshi / Suzuri, Yoshiyuki / Yamada, Taketoshi / Nakamura, Kazuaki / Ueda, Noriko / Okubo, Yasushi (Konica Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Sep 2007
patno:US7264890
...injected from a anode and an electron injected from a cathode are recombined, and is different...as long as the number of n-electron thereof is $4n+2$ in which n...natural number, and it may be a single ring or condensed ring. The...compound having a number of n-electron of $4n+2$ in which n is a natural...

Full text available at patent office. For more in-depth searching go to  LexisNexis®
similar results

11. COMPLEX OXYNITRIDE PHOSPHOR, LIGHT-EMITTING DEVICE USING SAME, IMAGE DISPLAY, ILLUMINATING DEVICE, PHOSPHOR-CONTAINING COMPOSITION AND COMPLEX OXYNITRIDE
Shimooka, Satoshi / Ueda, Kyota / Mikami, Masayoshi / Kijima, Naoto / Imura, Hiroyuki / Horibe, Kentaro (Mitsubishi Chemical Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Feb 2009
patno:US20090033201
...20-1: back electrode[0125]20-2: liquid crystal layer[0126]20-3: front electrode [0127...Oxynitride Phosphor])[(1-1. Composition and Crystal Structure of Multinary Oxynitride Phosphor...and can be almost identified as a single phase (hereinafter, the crystal phase is referred to as BSON crystal...be decided also by a measurement of electron spin resonance (ESR). [0144]In the...


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12. **Electroluminescent material, electroluminescent element and color conversion filter**
 Kita, Hiroshi / Suzuri, Yoshiyuki / Yamada, Taketoshi / Nakamura, Kazuaki / Ueda, Noriko / Okubo, Yasushi (KONICA CORPORATION), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, May 2004
 patno:US20040096696
 ...injected from a anode and an electron injected from a cathode are recombined, and is different...natural number, and it may be a single ring or condensed ring. The...usually constituted by a single or plural layers which are...Anode/Light emission layer/Electron injection layer/Cathode...layer/Light emission layer/Electron injection layer/Cathode...
 Full text available at patent office. For more in-depth searching go to  LexisNexis
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13. **Electroluminescent material, electroluminescent element and color conversion filter**
 Kita, Hiroshi / Suzuri, Yoshiyuki / Yamada, Taketoshi / Nakamura, Kazuaki / Ueda, Noriko / Okubo, Yasushi (KONICA CORPORATION), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Apr 2004
 patno:US20040072019
 ...injected from a anode and an electron injected from a cathode are recombined, and is different...natural number, and it may be a single ring or condensed ring. The...usually constituted by a single or plural layers which are...Anode/Light emission layer/Electron injection layer/Cathode...layer/Light emission layer/Electron injection layer/Cathode...
 Full text available at patent office. For more in-depth searching go to  LexisNexis
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14. **Electroluminescent material, electroluminescent element and color conversion filter**
 Kita, Hiroshi / Suzuri, Yoshiyuki / Yamada, Taketoshi / Nakamura, Kazuaki / Ueda, Noriko / Okubo, Yasushi (KONICA CORPORATION), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Apr 2004
 patno:US20040062951
 ...injected from a anode and an electron injected from a cathode are recombined, and is different...natural number, and it may be a single ring or condensed ring. The...usually constituted by a single or plural layers which are...Anode/Light emission layer/Electron injection layer/Cathode...layer/Light emission layer/Electron injection layer/Cathode...
 Full text available at patent office. For more in-depth searching go to  LexisNexis
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15. **Electroluminescent material, electroluminescent element and color conversion filter**
 Kita, Hiroshi / Suzuri, Yoshiyuki / Yamada, Taketoshi / Nakamura, Kazuaki / Ueda, Noriko / Okubo, Yasushi (KONICA CORPORATION), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Mar 2004
 patno:US20040058195
 ...injected from a anode and an electron injected from a cathode are recombined, and is different...natural number, and it may be a single ring or condensed ring. The...usually constituted by a single or plural layers which are...Anode/Light emission layer/Electron injection layer/Cathode...layer/Light emission layer/Electron injection layer/Cathode...
 Full text available at patent office. For more in-depth searching go to  LexisNexis
[similar results](#)
16. **Electroluminescent material, electroluminescent element and color conversion filter**
 Kita, Hiroshi / Suzuri, Yoshiyuki / Yamada, Taketoshi / Nakamura, Kazuaki / Ueda, Noriko / Okubo, Yasushi (Konica Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Dec 2003
 patno:US6656608
 ...injected from a anode and an electron injected from a cathode are recombined, and is different...natural number, and it may be a single ring or condensed ring. The...usually constituted by a single or plural layers which are...Anode/Light emission layer/Electron injection layer/Cathode...layer/Light emission layer/Electron injection layer/Cathode...
 Full text available at patent office. For more in-depth searching go to  LexisNexis
[similar results](#)
17. **Organic electro-luminescent element and material of organic electro-luminescent element**
 Ueda, Noriko / Matsuura, Mitsunori / Kita, Hiroshi (Konica Corporation), UNITED STATES

PATENT AND TRADEMARK OFFICE GRANTED PATENT, Apr 2004

patno:US6723455

...through A6 may be a **single** ring or condensed ring...injection layer or an **electron** injection layer is...Light emission layer/**Cathode** (II) Anode/Positive...Light emission layer/**Cathode** (III) Anode/Light emission...may be composed of **single** layer structure comprising...disparate compositions. The **electron** injection layer which...**electrons** injected to the **cathode** to the light emiss

Full text available at patent office. For more in-depth searching go to  LexisNexis


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18. Preparation and photoluminescence properties of Mn^{2+} -activated $M_2Si_5N_8$ ($M=Ca, Sr, Ba$) phosphors



Duan, C.J. / Otten, W.M. / Delsing, A.C.A. / Hintzen, H.T. , *Journal of Solid State Chemistry*, 181 (4), p.751-757, Apr 2008

... $Zn_2SiO_4:Mn^{2+}$ (Green)[10] and $BaAl_2O_9:Mn^{2+}$ (Green)[11], and **cathode-ray tubes** (CRTs) phosphors...red emission on a strong **crystal-field**[23]. As far as we...then transferred into **molybdenum** crucibles. All processes...samples are shown to be **single** phase and the X-ray diffraction...excitation levels. The **electron** from the ground state... Mn^{2+} . The excited free **electron** then relaxes to the $4T_1$...environment for (and thus **crystal field** around) the Ca ion...there is present only a **single** narrow emission band in...


Published journal article available from  ScienceDirect

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19. Organic electro-luminescent element and material of organic electro-luminescent element
Ueda, Noriko / Matsuura, Mitsunori / Kita, Hiroshi, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Jul 2002

patno:US20020094452

...by A1 through A6 may be a **single** ring or condensed ring. Preferable...hole injection layer or an **electron** injection layer is provided...Anode/Light emission layer/**Cathode** [0066] (II) Anode/Positive...layer/Light emission layer/**Cathode** [0067] (III) Anode/Light emission...**Electron** transporting layer/**Cathode** [0068] (VI) Anode/Positive...

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20. 封込 doc [PDF-498K]

Feb 2007

...Flat Display Industry for Consumer **Electronics** applications Kees van der Klauw Philips Consumer **Electronics**, Netherlands 12:00-13:30 Lunch Break...Taiwan, China 14:10-14:30 1.3 Liquid **Crystal** Photo-Aligning by Azo-Dyes Invited...Viewing Angle Controllable LCD with a **Single** LC Layer Woo-Jung Shin Inha University...Invited Zexiang Chen University of **Electronic Science** and Technology of China, China...


[http://www.sid.org/conf/asid2007/program.pdf]

similar results

21. PLASMA DISPLAY PANEL AND METHOD FOR MANUFACTURING THE SAME
CHOI, Sung Chun, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Sep 2008

patno:US20080231163

...nickel (Ni), chromium (Cr), and **molybdenum** (Mo). On the other hand, the rare...increase the emission of secondary **electrons**. [0046] The PDP further includes a...nickel (Ni), chromium (Cr), and **molybdenum** (Mo). On the other hand, the rare...and a dielectric having a secondary **electron** emission coefficient higher than that...selected from the group consisting of $BaAl_2O_9:Mn$, (Ba, Sr, Mg)O $Al_2O_3:Mn$ ("a" is...

Full text available at patent office. For more in-depth searching go to  LexisNexis

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22. Cold emission electrode method of manufacturing the same and display device using the same
Nakamura, Osamu / Suzuki, Shigemi / Mori, Yuichi / Hiram, Hironori (Casio Computer Co., Ltd. ; Stanley Electric Co., Ltd.), *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, Aug 2001

patno:US6281626

...and H is hydrogen) is applied as an **electron** emitting material for a cold emission...material represented by RH_{2+x} can have a **crystal** structure derived from a substance...semiconductor properties and are made of a **single** element or element mixture which...Examples of such an element are Mo (**molybdenum**) and Al (aluminum) in addition to...films 4 and 7 serving as the cold **electron** emitting layers contain an electrode...formed on a substrate 16, and an **electron** emitting film 18 containing a hydride...

Full text available at patent office. For more in-depth searching go to  LexisNexis